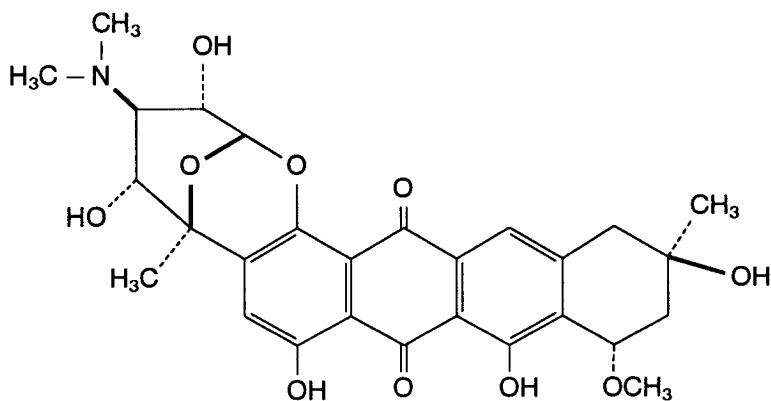


# MENOGARIL

NSC - 269148



**Chemical Name:** 4-(Dimethylamino)-3,4,5,6,11,12,13,14-octahydro-3,5,8,10,13-pentahydroxy-11-methoxy-6,13-dimethyl-2,6-epoxy-2*H*-naphthaceno[1,2-*b*]-oxocin-9,16-dione, (2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\beta$ ,6 $\alpha$ ,11 $\alpha$ ,13 $\alpha$ )-, (*P*)-

## Other Names:

7-con-O-Methylnogarol; 7-OMEN

**CAS Registry Number:** 71628-96-1

**Molecular Formula:** C<sub>28</sub>H<sub>31</sub>NO<sub>10</sub>

**M.W.:** 541.6

## Approximate Solubility:

(mg/mL)

H <sub>2</sub> O	insoluble (<0.01)
pH 5, 0.1 M Phosphate buffer	insoluble (<0.01)
pH 9, 0.1 M Phosphate buffer	insoluble (<0.01)
95% EtOH	0.05
10% aq. DMA	0.8

DSMO  
DMA

4  
10

### Stability:

#### Bulk:

Bulk stability studies indicate slight, gradual decomposition occurring over 30 days at room temperature and laboratory illumination; total decomposition was approximated at 2%. Stored at 60 °C and in darkness, the sample is stable for at least 30 days (HPLC and TLC).

#### Solution:

Menogaril solutions (0.1 and 5 mg/mL are stable for at least 14 days at room temperature in the dark.

### Ultraviolet Absorption:

(95% EtOH)

$\lambda_{\max}$	$\epsilon$
478 $\pm$ 2 nm	15,000 - 15,200
259 $\pm$ 2 nm	23,000 - 24,000
235 $\pm$ 2 nm	48,400 - 49,800

### High Performance Liquid Chromatography:

Column:	Zorbax TMS, 250 mm x 4.6 mm i.d.
Mobile Phase:	0.1 M $\text{KH}_2\text{PO}_4$ , pH 5.6/ $\text{CH}_3\text{OH}$ , 45/55
Flow Rate:	1.0 mL/min

**Detection:** UV at 254 nm

**Retention Volume:** 7.1 mL (NSC-269148)

**Optical Rotation:**

(c = 0.15, CHCl<sub>3</sub>)

$$[\alpha]_D^{21} = 920 \pm 13^\circ$$

**Toxicity Data:**

Rat(iv): LD<sub>50</sub>: 77400 µg/kg

National Technical Information Services, PB84-148410

Mouse(ip): LD<sub>50</sub>: 83500 µg/kg

National Technical Information Services, PB84-148410